

## EAST Search History

## EAST Search History (Prior Art)

| Ref # | Hits  | Search Query   | DBs   | Default Operator | Plurals | Time Stamp          |
|-------|-------|--|---|------------------|---------|---------------------|
| L1    | 0     | (3D or 3-D or three adj dimensional\$1 or scanner)and digital and micromirror adj device and modulate and structured and light adj signal and projected adj beam same object and generat\$4 adj shape            | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2010/02/19<br>10:20 |
| L2    | 0     | (3D or 3-D or three adj dimensional\$1 or scanner)and digital and micromirror adj device and structured adj light and project\$3 adj beam and object and generat\$4 adj shape                                    | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2010/02/19<br>10:22 |
| L3    | 0     | (3D or 3-D or three adj dimensional\$1 or scanner)and micromirror adj device and structured adj light and project\$3 adj beam and object and generat\$4 adj shape  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2010/02/19<br>10:23 |
| L4    | 2117  | (3D or 3-D or three adj dimensional\$1 or scanner\$1)and micromirror adj device  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2010/02/19<br>10:23 |
| L5    | 30982 | (3D or 3-D or three adj dimensional\$1 or scanner)and micromirror adj device and (light or source or laser adj light)and project\$3 light adj beam and object and (generat\$4 adj shape or depth)                | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2010/02/19<br>10:25 |
| L6    | 2312  | (3D or 3-D or three adj dimensional\$1 or scanner)and micromirror adj device and (light or source or laser adj light)and project\$3 light adj beam and object and (generat\$4 adj shape or depth)adj information | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2010/02/19<br>10:26 |

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| L7  | 490 | (3D or 3-D or three adj dimensional\$1 or scanner)and encod\$3 and micromirror adj device and(light or source or laser adj light or structural adj light)and project\$3 light adj beam and object and(generat\$4 adj shape or depth)adj object and(reval or reconstruct\$3)and(contour or edge or filter\$3) | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/02/19<br>10:34 |
| L8  | 308 | L7 and(@ad<"20040115" or @rlad<"20040115" or @prad<"20040115" or @ptad<"20040115")   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/02/19<br>10:34 |
| L9  | 256 | L7 and @ad<"20040115"  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/02/19<br>10:34 |
| L10 | 9   | L9 and(detect\$3 or determining)and reflect\$3 and(light or source or laser adj light or structural adj light)and project\$3 same light adj beam same object same(generat\$3 adj shape or depth or contour or edge or filter\$3)   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/02/19<br>10:40 |
| L11 | 0   | L10 and(detect\$3 or determining)and reflect\$3 and(light or source or laser adj light or structural adj light)and detector and(configured or connected)and pass\$3 adj(single adj bit or binary adj data)and decoder and(pixel\$ or pixel)  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/02/19<br>10:45 |
| L12 | 0   | L10 and reflect\$3 and(light or source or laser adj light or structural adj light)and detector and(configured or connected)and pass\$3 adj(single adj bit or binary adj data)and decoder   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/02/19<br>10:47 |
| L13 | 8   | reflect\$3 and(light or source or laser adj light or structural adj light)and detector and(configured or connected)and pass\$3 adj(single adj bit or binary adj data)and decoder   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/02/19<br>10:47 |
| L14 | 7   | L13 and @ad<"20040115"   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/02/19<br>10:47 |

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| L16 | 0  | L14 and (3D or 3-D or three adj dimensional\$1 or scanner) and encod\$3 and micromirror adj device and (light or source or laser adj light or structural adj light) and project\$3 and light adj beam and object and (generat\$4 adj shape or depth adj object or object) and (contour or edge or filter\$3)   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/02/19<br>10:50 |
| L17 | 0  | L14 and micromirror  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/02/19<br>10:59 |
| L18 | 0  | L13 and micromirror  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/02/19<br>10:59 |
| L20 | 1  | (3D or 3-D or three adj dimensional\$1 or scanner) and encod\$3 adj unit and micromirror adj device and (light or source or laser adj light or structural adj light) and project\$3 and light adj beam and object and (generat\$4 adj shape or depth) and (detect\$3 or determining) same (contour or edge\$3) | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/02/19<br>11:20 |
| L21 | 1  | encod\$3 adj unit and micromirror adj device and (light or source or laser adj light or structural adj light) and project\$3 and light adj beam and object and (generat\$4 adj shape or depth) and (detect\$3 or determining) same (contour or edge\$3)  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/02/19<br>11:21 |
| L22 | 13 | encod\$3 adj unit and micromirror adj device   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/02/19<br>11:23 |
| L23 | 0  | L22 and reflect\$3 and (light or source or laser adj light or structural adj light) and detector and (configured or connected) and pass\$3 adj (single adj bit or binary adj data) and decoder   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/02/19<br>11:24 |
| L24 | 5  | L22 and @ad<"20040115"   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/02/19<br>11:24 |

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| L25 | 0    | L24 and(detect\$3 or determining)and reflect\$3 and(light or source or laser adj light or structural adj light)and project\$3 same object same (generat\$3 adj shape or depth or contour or edge\$1) | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/02/19<br>11:25 |
| L26 | 1    | L22 and(detect\$3 or determining)and reflect\$3 and(light or source or laser adj light or structural adj light)and project\$3 same object same (generat\$3 adj shape or depth or contour or edge\$1) | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/02/19<br>11:26 |
| L27 | 8275 | (directing or project\$3 or reflect\$3)and(light or source or laser adj light or structural adj light)and(digital adj micromirror or micromirror adj device)   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/02/19<br>11:34 |
| L28 | 82   | L27 and(detect\$3 or determining)and reflect\$3 and(light or source or laser adj light or structural adj light)and project\$3 same object same (generat\$3 adj shape or depth or contour or edge\$1) | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/02/19<br>11:35 |
| L29 | 36   | L28 and @ad<"20040115"   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/02/19<br>11:35 |
| L31 | 420  | L27 and operat\$3 and(digital adj micromirror or micromirror adj device) and(light or source or laser adj light or structural adj light)same changing same beam                                      | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/02/19<br>11:39 |
| L32 | 1    | L31 and(detect\$3 or determining)and reflect\$3 and(light or source or laser adj light or structural adj light)same detector and synchronized adj beam   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/02/19<br>11:40 |
| L33 | 1    | L31 and(detect\$3 or determining)and reflect\$3 and(light or source or laser adj light or structural adj light)and detector and synchronized adj beam  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/02/19<br>11:41 |

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| L34 | 1  | L31 and reflect\$3 and(light or source or laser adj light or structural adj light)and detector and synchronized adj beam  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/02/19<br>11:42 |
| L35 | 0  | L31 and detector and(configured or connected)and pass\$3 adj(single adj bit or binary adj data)and decoder  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/02/19<br>11:45 |
| L36 | 26 | (directing or project\$3 or reflect\$3)and(light or source or laser adj light or structural adj light)and(digital adj micromirror or micromirror adj device) and operat\$3 and modulat\$3 and change adj beam | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/02/19<br>11:52 |
| L37 | 0  | L36 and(detect\$3 or determining)and reflect\$3 and(light or source or laser adj light or structural adj light)and detector and synchronized adj beam   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/02/19<br>11:52 |
| L38 | 0  | L36 and(detect\$3 or determining)and reflect\$3 and(light or source or laser adj light or structural adj light)and detector and synchronized and beam   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/02/19<br>11:53 |
| L39 | 0  | L36 and detector and(configured or connected)and pass\$3 adj(single adj bit or binary adj data)and decoder  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/02/19<br>11:53 |
| L40 | 10 | L36 and @ad<"20040115"  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/02/19<br>11:53 |
| L42 | 0  | L40 and(light or source or laser adj light or structural adj light or laser) and detector and synchronized adj beam   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/02/19<br>11:58 |

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| L43 | 0      | L40 and detector and(configured or connected)and pass\$3 adj(single adj bit or binary adj data or gary or grey)and decoder  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/02/19<br>11:59 |
| L45 | 4      | L40 and decod\$3 and reflect\$3 and(light or source or laser adj light or structural adj light)and (determining or detect\$3)and object and(generat \$3 adj shape or depth or contour or edge\$1) | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/02/19<br>12:06 |
| L46 | 0      | L45 and detector and(configured or connected)and pass\$3 adj(single adj bit or binary adj data or gary or grey)and decoder  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/02/19<br>12:06 |
| L47 | 0      | L40 and detector and(configured or connected)and pass\$3 adj(single adj bit or binary adj data or gary or grey)and decoder  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/02/19<br>12:06 |
| L48 | 0      | L40 and(detect\$3 or determining)and reflect\$3 and(light or source or laser adj light or structural adj light)and detector and synchronized and beam   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/02/19<br>12:12 |
| L49 | 0      | L45 and detector and(configured or connected)and pass\$3 adj(single adj bit or binary adj data or gary or grey)and decoder  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/02/19<br>12:13 |
| L50 | 396146 | (directing or project\$3 or reflect\$3)and(light or source or laser adj light or structural adj light or beam)same object   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/02/19<br>12:16 |
| L51 | 1      | L50 and modulat\$3 and light adj frame and dark adj frame and light adj beam and reach\$3 adj object  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/02/19<br>12:19 |

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| L52 | 1    | L50 and light adj frame and dark adj frame and light adj beam and reach\$3 adj object  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/02/19<br>12:20 |
| L53 | 1    | L50 and calculat\$3 and mid adj level and light adj frame and dark adj frame and light adj beam and reach\$3 adj object  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2010/02/19<br>12:24 |
| L54 | 7368 | 250/559.36,236,208.1,205,201.6,237G,559.38,201.4.CCLS.   | USPAT   | OR | ON | 2010/02/19<br>12:30 |
| L55 | 103  | 348/70.CCLS.   | USPAT   | OR | ON | 2010/02/19<br>12:31 |
| L56 | 1349 | 356/608,4.01,243.1,3.03,4.07.CCLS.   | USPAT   | OR | ON | 2010/02/19<br>12:32 |
| L57 | 2856 | 235/454,472.01.CCLS.   | USPAT   | OR | ON | 2010/02/19<br>12:33 |
| L58 | 491  | 396/106.CCLS.  | USPAT   | OR | ON | 2010/02/19<br>12:34 |
| L59 | 143  | 359/17,.CCLS.  | USPAT   | OR | ON | 2010/02/19<br>12:35 |
| L60 | 2492 | 358/484,474.CCLS.  | USPAT   | OR | ON | 2010/02/19<br>12:35 |
| L61 | 856  | 600/476.CCLS.  | USPAT   | OR | ON | 2010/02/19<br>12:36 |
| L62 | 2833 | L54 and(directing or project\$3 or reflect\$3)and(light or source or laser adj light or structural adj light)and(digital adj micromirror or micromirror adj device or mirrors or optics)   | USPAT   | OR | ON | 2010/02/19<br>12:41 |
| L63 | 102  | L62 and(detect\$3 or determining)and reflect\$3 and(light or source or laser adj light or structural adj light)and project\$3 same object same (generat\$3 adj shape or depth or contour or edge\$1)                                     | USPAT   | OR | ON | 2010/02/19<br>12:42 |
| L64 | 1    | L63 and(directing or project\$3 or reflect\$3)and(light or source or laser adj light or structural adj light)and(digital adj micromirror or micromirror adj device or mirrors or optics)and operat\$3 and modulat\$3 and change adj beam | USPAT   | OR | ON | 2010/02/19<br>12:43 |
| L65 | 0    | L64 and @ad<"20040115"   | USPAT   | OR | ON | 2010/02/19<br>12:45 |

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| L66 | 0       | L64 and decod\$3 and reflect\$3 and(light or source or laser adj light or structural adj light)and (determining or detect\$3)and object and(generat\$3 adj shape or depth or contour or edge\$1)     | USPAT   | OR | ON | 2010/02/19<br>12:46 |
| L67 | 1       | L64 and(directing or project\$3 or reflect\$3)and(light or source or laser adj light or structural adj light or beam)same object   | USPAT   | OR | ON | 2010/02/19<br>12:47 |
| L68 | 0       | L67 and modulat\$3 and light adj frame and dark adj frame and light adj beam and reach\$3 adj object   | USPAT   | OR | ON | 2010/02/19<br>12:48 |
| L69 | 0       | L67 and calculat\$3 and mid adj level and light adj frame and dark adj frame and light adj beam and reach\$3 adj object  | USPAT   | OR | ON | 2010/02/19<br>12:49 |
| S1  | 5000855 | (3D or 3-D or three adj dimensional\$1 or scanner)and digital and micromirror adj device and modulate and structured and light adj signal and projected adj beam and generate and shape of an object | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/07/19<br>13:44 |
| S2  | 0       | (3D or 3-D or three adj dimensional\$1 or scanner)and digital and micromirror adj device and modulate and structured and light adj signal and projected adj beam and generate and shape adj object   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/07/19<br>13:45 |
| S3  | 0       | (3D or 3-D or three adj dimensional\$1 or scanner)and digital and micromirror adj device and modulate and structured and light adj signal and projected adj beam and generate and shape              | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/07/19<br>13:45 |
| S4  | 0       | (3D or 3-D or three adj dimensional\$1 or scanner)and micromirror adj device and modulate and structured and light and projected adj beam and generate and shape                                     | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/07/19<br>13:46 |
| S5  | 1       | (3D or 3-D or three adj dimensional\$1 or scanner)and micromirror adj device and structured adj light and projected adj beam and generate and shape  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/07/19<br>13:47 |
| S6  | 76884   | "382"/\$.ccls.   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/07/19<br>13:57 |



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| S7  | 98576  | "356"/\$.ccls.   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/07/19<br>13:57 |
| S8  | 0      | S6 and(3D or 3-D or three adj dimensional\$1 or scanner)and micromirror<br>adj device and structured adj light and projected adj beam and generate<br>and shape  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/07/19<br>13:58 |
| S9  | 1      | S7 and(3D or 3-D or three adj dimensional\$1 or scanner)and micromirror<br>adj device and structured adj light and projected adj beam and generate<br>and shape  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/07/19<br>13:58 |
| S10 | 131735 | "359"/\$.ccls.   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/07/19<br>13:59 |
| S11 | 0      | S10 and(3D or 3-D or three adj dimensional\$1 or scanner)and<br>micromirror adj device and structured adj light and projected adj beam<br>and generate and shape | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/07/19<br>14:00 |
| S12 | 23     | ((RON) near2 (KIMMEL)).INV.  | US-PGPUB;<br>USPAT                                      | OR | ON | 2009/07/19<br>14:17 |
| S13 | 0      | S12 and(3D or 3-D or three adj dimensional\$1 or scanner)and<br>micromirror adj device and structured adj light and projected adj beam<br>and generate and shape | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/07/19<br>14:18 |
| S14 | 1      | S12 and(3D or 3-D or three adj dimensional\$1 or scanner)and<br>micromirror adj device and structured adj light and projected adj beam                           | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/07/19<br>14:18 |

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|-----|---|--|---|----|----|---------------------|
| S15 | 0 | S9 and(@ad<"20040115" or @rlad<"20040115" or @prad<"20040115" or @ptad<"20040115") | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/07/19<br>14:34 |
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2/ 19/ 10 12:49:39 PM  
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